Israel Biophysical Society Meeting 15 January 2019 / Tel Aviv University

~	
8:30-9:15 9:15-9:30	Registration + Coffee Welcome words
.loint sessior	n 1 (Lev): Chair, Roy Beck
	Elisha Hass (BIU): The protein folding mechanism: bottom-up or top-down?
10.00 - 10.30	Keynote: Gijsje Koenderink (AMOLF): Living in a mechanical world
10:30-11:00	Coffee break
Parallel session 1: Extra-Cellular Matter (Melamed): Chair, Yair Shokef	
11:00-11:30	Ayelet Lesman (TAU): Mechanical aspects of fibrous networks embedded with
11.00-11.50	contractile cells
11:30-12:00	Liraz Chai (HUJI): Zooming into the extracellular matrix of a bacterial biofilm
11.30-12.00	Linaz Griai (HOSI). 2001 mg into the extracendiar matrix of a bacterial biomm
Parallel session 2: Active Living Matter (Lev): Chair, Yoav Lahini	
11:00-11:30	Nir Gov (WIS): Pair formation in insect swarms driven by adaptive long-range interactions
11:30-12:00	Ofer Feinerman (WIS): Regulation of collective food flows in ant colonies
12:00-14:00	Lunch + Poster session
12.00-14.00	
Parallel session 3 – Cell Population Dynamics (Melamed): Chair, Yasmine Meroz	
14:00-14:30	Naama Brenner (IIT): Testing for ergodicity in dividing cell populations
14:30-15:00	Rami Pugatch (BGU): Self-assembly of ribosomes leads to overlapping reproduction cycles
15:00-15:15	and increase growth rate
	Amir Porat (TAU): Dynamics of interacting growth-driven systems inspired by plant tropisms
15:15-15:30	Yuval Edri (BGU): Shaping the asymmetry of localized frequency-locking waves by a
	generalized forcing and implications to the inner ear
Parallel session 4: From Single Molecule to Cell Dynamics (Lev): Chair, Shlomi Reuveni	
14:00-14:30	Ronen Zaidel-Bar (TAU): New insights into the assembly, structure and function of cadherin-mediated adhesions
14.00 15.00	
14:30-15:00	Ronen Berkovich (BGU): The dynamics of single proteins under force
15:00-15:15	Amnon Buxboim (HUJI) : Evaluating embryo developmental potential based on deep learning
15:15-15:30	of time-lapse imaging and real-time rheology Raya Sorkin (TAU) : Membrane binding, bending and remodeling by calcium sensor proteins
15.15-15.50	Raya Sorkin (TAO). Membrane binding, bending and remodeling by calcium sensor proteins
15:30-16:00	Coffee break
15.50-10.00	Collee Dieak
Joint session 2 (Lev): Chair, Yael Roichman	
16:00-16:30	Eran Sharon (HUJI): Quantification of shape and shape fluctuations of self-assembled chiral
10.00-10.50	peptide nano-ribbons using incompatible elasticity theory
16:30-17:00	Ariel Kaplan (IIT): Under the hood of a cellular supercar: DNA unwinding by RecBCD
17:00-17:30	Yuval Garini (BIU): DNA Origami structures for biophysical and in vivo applications
17:30-17:45	Goodbye words
17.00 17.40	

















